



## GS-1216L: 16-Port GbE Web Smart Switch with 4 SFP Dual Media

### Key Features

- QoS with four priority queues
- Port Mirroring
- Q-in-Q VLAN for Performance & Security
- Multicasting VLAN reduce the multicast video streaming traffic in DVB application
- 802.1x Access Control Improve Network Security
- Port Trunk for Bandwidth Aggregation
- Trap Event for Exception Management
- 4 Dual Media Ports for Flexible Fiber Connection
- Build-in Web-base Management

### Overview

The Switch is a cost-effective web smart switch that meets all IEEE 802.3/u/ab/z Gigabit, Fast Ethernet specifications. It is equipped with 12 10/100/1000Base-T ports and 4 dual media ports that accommodate optional 10/100/1000Base-T or SFP modules. The switch can be managed through Ethernet port using Web browser, the network administrator can logon the switch to monitor, configure and control each port's activity. In addition, the switch implements the QoS (Quality of Service), Port Mirror, VLAN, LACP, LAN security, Multicasting video stream protocol, and SNMP v2c. It is suitable for SMB application.

### Benefits

#### • Standard compliance

- IEEE 802.3 10Base-T Ethernet (twisted-pair copper)
- IEEE 802.3u 100Base-TX Ethernet (twisted-pair copper)
- IEEE 802.3ab 1000Base-TX Ethernet (twisted-pair copper)
- IEEE 802.3z 1000Base-X Ethernet
- IEEE 802.3x flow control capability
- IEEE 802.3ad Port trunk with LACP
- IEEE 802.1q VLAN
- IEEE 802.1d/1w STP/RSTP

#### • Subscriber Interface

- 16 Gigabit Ethernet ports
- Auto-negotiation
- Auto-MDIX
- Backpressure flow control for half duplex.
- 802.3x flow control for full duplex.
- Port 13,14,15,16 are TP/SFP Fiber auto sense
- Connector: 12 RJ-45 and 4 SFP/RJ-45 module

#### • Performance

##### Switching capacity

- 32Gbps forwarding bandwidth for switch, non-blocking switch fabric
- Wire speed performance
- 8 K MAC addresses
- Jumbo frame support to 9600 bytes

##### VLAN

- 16 Port-based VLAN
- IEEE802.1q tag-based VLAN, 4094 max, up to 16 active VLANs
- In tag-based VLAN, supports egress/ingress packet filter
- Q-in-Q is an efficient method for enabling Subscriber Aggregation.
- Provides Multicast VLAN for DVB application

##### QoS

- Supports port based, Tag based, IPv4 ToS and DSCP
- Supports 802.1p QoS with four level priority queue
- Supports priority in a Q-in-Q tag
- Supports two scheduling, WRR and Strict

##### Bandwidth Control

- Supports bandwidth rating per port ingress and egress rate limit from 128~3968 kbps

##### LACP/Port Trunk

- Port trunking with 12 trunking groups
- Up to 12 ports for each group

##### Broadcast Storm

Multicast/Broadcast/Unknown-Unicast Storm suppression

##### Port Mirroring

- Support 1: N RX port mirroring
- Supports port sniffer function with RX Monitor Mode

**Software Upgrade**

---Supports firmware upgrade via web GUI

**802.1x network access security**

---Provides multi-host authentication based on port-based

---Provides MAC based authentication with Radius server

**SNMPv1, v2c Network Management**

---MIB Files: MIB II(RFC1213), Bridge MIB(RFC1493), Interface Group MIB(RFC2863)

**• RoHS Compliance**
**• LED Description**

	LED	Color	Function
Global	POWER	Green	-Lit when +5V power is coming up
Global	CPU	Green	-Blinks when CPU is active
Port 1-16	LINK/ACT	Green	-Lit when connection with remote device is good -Blinks when any traffic is present
Port 1-16	10/100/1000 Mbps	Green/Amber	-Lit Green when TP link on 1000Mbps speed -Lit Amber when TP link on 100Mbps speed
Port 13-16	SFP	Green	-Off when 10Mbps or no link occur -Lit when SFP connection with remote device is good -Blinks when any traffic is present

**• Hardware Spec.**

Feature	Detailed Description
<b>Voltage</b>	100~240 VAC
<b>Frequency</b>	50~60 Hz
<b>Consumption</b>	20W
<b>Ambient Temperature</b>	0 to 40°C
<b>Humidity</b>	10% to 90%
<b>Dimensions</b>	44(H) x 442(W) x 170.3(D) mm
<b>Weight</b>	2.4kg
<b>Safety</b>	PSU comply with UL

**Packing Information**

Carton Dimensions(mm)	pcs/Carton	N.W (KG)	G.W (KG)
530 x 512 x 345	5	16	17

**Ordering Information**
**GS-1216L: 16-Port GbE Web Smart Switch with 4 SFP Dual Media**

Optional SFP Module	
<b>SFP.LC</b>	1000Base-SX GE SFP Fiber Module, LC Multi-Mode 850nm
<b>SFP.LC.M2</b>	1000Base-SX GE SFP Fiber Module, LC Multi-Mode 1310nm 2km

**Note:**

We recommend the SFP transceiver from the following vendors:

1. Ruby Tech Corporation
2. Agilent Technologies
3. AVAGO Technologies
4. Finisar Corporation

**Ruby Tech Corp.**

 3F, No.1, Lane 50, Nan Kang Road, Sec.3, Taipei, Taiwan  
 TEL:886-2-2785-3961 FAX:886-2-2786-3012

<http://www.rubytech.com.tw>

 E-mail : [rubytech@mail.rubytech.com.tw](mailto:rubytech@mail.rubytech.com.tw)